BRUHAT BANGALORE MAHANAGARA PALIKE
EXCECUTIVE ENGINEER DASHARAHALLI DIVISION

NAME OF WORK :- Modified Estimate for Civil works and other Devolopment at Dog Kennel in Mallasandra Ward No.13, Shettyhalli Sub Division

Est Cost: Rs.50.00 Lakhs

Sl. No	Description of work	Mesurement				Qty	Unit	Rate	Amount
		Nos	L	B	D				
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications,specification. No. KBS 2.1(b) 2.3.5								
	for Retaining wall	1	26.90	2.00	1.50	80.70			
	For Drain	1	44.00	1.20	1.00	52.80			
	For Kerb	1.00	16.50	0.30	0.15	0.74			
		1.00	14.30	0.30	0.15	0.64			
		1.00	2.07	0.30	0.15	0.09			
		1.00	46.20	0.30	0.15	2.08			
		1.00	65.50	0.30	0.15	2.95			
		1.00	44.75	0.30	0.15	2.01			
	lead offdrain	1.00	87.00	1.00	1.00	87.00			
	Circular portion	1.00	13.80	0.30	0.15	0.62			
	Rectangle portion	1.00	25.80	0.30	0.15	1.16			
	Modified quantity					230.80			
	Schedule - B quantity					328.70			
	Quantity up to 125%					230.80	Cum	172.00	39697.84
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	for Retaining wall	1	26.90	2.30	0.15	9.28			
	For Drain	1	44.00	1.20	0.15	7.92			
	For Kerb	1.00	16.50	0.30	0.15	0.74			
		1.00	14.30	0.30	0.15	0.64			
		1.00	2.07	0.30	0.15	0.09			
		1.00	46.20	0.30	0.15	2.08			
		1.00	65.50	0.30	0.15	2.95			
		1.00	44.75	0.30	0.15	2.01			
	Circular portion	1.00	13.80	0.30	0.15	0.62			
	Rectangle portion	1.00	25.80	0.30	0.15	1.16			
	Modified quantity					27.50			
	Schedule - B quantity					30.11			
	Quantity up to 125%					27.50	Cum	4800.00	132009.12

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3	KSRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs. with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum. with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excludingcost of reinforcement as per specifications.Specification No. KBS Specification No. KBS 4.1,4.64.1,4.6								
	For Retaining wall Footing	1.00	26.90	2.00	0.55	29.59			
	for Retaining wall	1.00	26.90	0.40	3.65	39.27			
	Modified quantity					68.86			
	Schedule - B quantity					122.02			
	Quantity up to 125%					68.86	Cum	6500.00	447616.00
4	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mix concrete(RMC) for RCC works laid in 15 cms thick layers and well conpacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exlusive of cost of steel and fabrication charges) Ready mix concrete M-20 for raft foundation, coulmn and footing, main ans secondary beams.								
	For c c Drain Bottom slab	1.00	44.00	1.00	0.15	6.60			
	Side walls	2.00	44.00	0.15	0.60	7.92			
	Modified quantity					14.52			
	Schedule - B quantity					40.36			
	Quantity up to 125%					14.52	Cum	6500.00	94380.00
5	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9								
	70% of the total earthwork excavation	230.80							
	Modified quantity					161.56			
	Schedule - B quantity					164.35			
	Quantity up to 125%					161.56	Cum	58.00	9370.54
6	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
	For Retaining wall Bottom	2.00	26.90		0.50	26.90			
		2	1.8		0.50	1.8			
	Vertical wall	2	26.90		4.00	215.20			
	For ccDrain Bottom slab	2	44.00		0.20	17.60			
	For side wall	2	44.00		0.75	66.00			
	Modified quantity					327.50			

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	Schedule - B quantity					829.20			
	Quantity up to 125%					327.50	Sqm	256.00	83840.00
7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500								
	For Retaining wall Bottom								
	MainReinforcement 12mm	550	2.30	1265.00	0.89	1125.85			
	Distribtion Bars 10mm	30	26.90	807.00	0.62	500.34			
	For Vertical wall Main Reinforcement 12mm Dia	550.00	4.95	2722.50	0.89	2423 025			
	Distribtion Bars	50.00	26.90	1345.00	0.62	833.90			
	For CC Drain 10mm Dia	7.00	44.00	308.00	0.62	190.96			
	10mm Dia	400	2	800	0.62	496			
						5570.08	Kgs		
	Modified quantity			OR		5.57			
	Schedule - B quantity					13.40			
	Quantity up to 125%					5.57	Tonnes	66000.00	367620.00
8	Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. {Data Rate sheet enclosed}								
		1.00	44.00	0.90		39.60			
	Modified quantity					39.60			
	Schedule - B quantity					105.30			
	Quantity up to 125%					39.60	Sqm	1690.00	66924.00
9	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.								
	South Side	3	30.00	2.40		216.00			
		1.00	29.00	2.40		69.60			
	East Side	2.00	19.80	3.10		122.76			
		2.00	40.25	2.12		170.66			
	North Side	1	60	2.7		162			
		1	3.30	2.70		8.91			
	Modified quantity					749.93			
	Schedule - B quantity					1100.00			
	Quantity up to 125%					749.93	sqm	158.00	118488.94

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10	Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. (Page No.-143, I.No.-19.14 of KPWD S.R 2016-17).								
	For cc road	1	65.50	15	0.50	491.25			
	Front side of OT	1	18.73	16.00	0.50	149.84			
		1	19.55	11.90	0.50	116.32			
	Backside of OT	1	24.70	4.15	0.50	51.25			
	Beside of OT	1	24.70	4.15	0.50	51.25			
		1	5.60	2.85	0.30	4.79			
		1	4.2	1.15	0.30	1.45			
		1	2.35	1.15	0.30	0.811			
		1	2.10	1.15	0.30	0.725			
		1	11.60	1.18	0.30	4.11			
		1	2.65	2.65	0.30	2.11			
	for shoulder cutting	1	5.75	1.30	0.30	2.24			
		1	75.50	4.00	0.50	151			
	Deductions					1027.15	cum		
	circular portions	1	3.14	4.39	0.30	4.14			
	rectangular portion	1	8.30	5.50	0.30	13.70			
	for ramp	1	3.50	1.55	0.30	1.63			
	Net Quantity					**19.46**			
	Modified quantity					444.71			
	Schedule - B quantity					444.71			
	Quantity up to 125%					241.50			
	Quantity above 125%					301.87	cum	0.75	226.40
						142.84	cum	0.75	107.13
11	KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method								
	For cc road	1	65.50	7.1	0.15	69.76			
	Front side of OT	1	18.73	15.40	0.15	43.27			
		1	19.55	11.90	0.15	34.90			
	Backside of OT	1	24.70	4.15	0.15	15.38			
	Beside of OT	1	24.70	4.15	0.15	15.38			
		1	5.60	2.85	0.15	2.39			
		1	4.2	1.15	0.15	0.72			
		1	2.35	1.15	0.15	0.405			
		1	2.10	1.15	0.15	0.362			
		1	11.60	1.18	0.15	2.05			
		1	2.65	2.65	0.15	1.05			
		1	5.75	1.30	0.15	1.12			
	for shoulder cutting	1	75.50	4.00	0.15	45.3			
						232.09	cum		
	Deductions								
	circular portions	1	3.14	4.39	0.15	2.07			
	rectangular portion	1	8.30	5.50	0.15	6.85			

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	for ramp	1	3.50	1.55	0.15	0.81			
	Net Quantity					**9.73**			
	Modified quantity					222.36	cum		
	Schedule - B quantity					222.36			
	Quantity up to 125%					120.75			
	Quantity above 125%					150.94		**2000.00**	**301875.00**
12	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as					71.42		**2000.00**	**142845.00**
	For cc road	1	65.50	7.1		465.05			
	Front side of OT	1	18.73	15.40		288.44			
		1	19.55	11.90		232.65			
	Backside of OT	1	24.70	4.15		102.51			
	Beside of OT	1	24.70	4.15		102.51			
		1	5.60	2.85		15.96			
		1	4.2	1.15		4.83			
		1	2.35	1.15		2.70			
		1	2.10	1.15		2.42			
		1	11.60	1.18		13.69			
		1	2.65	2.65		7.02			
		1	5.75	1.30		7.48			
	for shoulder cutting	1	75.50	4.00		302.00			
						1547.24	sqm		
	Deductions								
	circular portions	1	3.14	4.39		13.78			
	rectangular portion	1	8.30	5.50		45.65			
	for ramp	1	3.50	1.55		5.43			
						64.86			
	Net Quantity					1482.38	sqm		
	Modified quantity					1482.38			
	Schedule -B quantity					1610.00			
	Quantity up to 125%					1482.38		**6.00**	**8894.28**
13	KSRB 4-1.3 : Providing and laying in position plain cement concrete cum of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	For cc road	1	65.50	7.1	0.15	69.76			
	Front side of OT	1	18.73	15.40	0.15	43.27			
		1	19.55	11.90	0.15	34.90			
	Backside of OT	1	24.70	4.15	0.15	15.38			
	Beside of OT	1	24.70	4.15	0.15	15.38			
		1	5.60	2.85	0.15	2.39			
		1	4.2	1.15	0.15	0.72			
		1	2.35	1.15	0.15	0.405			
		1	2.10	1.15	0.15	0.362			
		1	11.60	1.18	0.15	2.05			
		1	2.65	2.65	0.15	1.05			
		1	5.75	1.30	0.15	1.12			
	for shoulder cutting	1	75.50	4.00	0.15	45.3			

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	Deductions					232.09	cum		
	circular portions	1	3.14	4.39	0.15	2.07			
	rectangular portion	1	8.30	5.50	0.15	6.85			
	for ramp	1	3.50	1.55	0.15	0.81			
						9.73			
	Net Quantity					222.36	cum		
	Modified quantity					222.36			
	Schedule - B quantity					80.50			
	Quantity up to 125%					100.63		5000.00	503125.00
	Quantity above 125%					121.74		5000.00	608675.00
14	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)								
	For cc road	1	65.50	7.1	0.12	55.81			
	Front side of OT	1	18.73	15.40	0.12	34.61			
		1	19.55	11.90	0.12	27.92			
	Backside of OT	1	24.70	4.15	0.12	12.30			
	Beside of OT	1	24.70	4.15	0.12	12.30			
		1	5.60	2.85	0.12	1.92			
		1	4.2	1.15	0.12	0.58			
		1	2.35	1.15	0.12	0.324			
		1	2.10	1.15	0.12	0.290			
		1	11.60	1.18	0.12	1.64			
		1	2.65	2.65	0.12	0.84			
		1	5.75	1.30	0.12	0.90			
	for shoulder cutting	1	75.50	4.00	0.12	36.24			
						185.67	cum		
	Deductions								
	circular portions	1	3.14	4.39	0.12	1.65			
	rectangular portion	1	8.30	5.50	0.12	5.48			
	for ramp	1	3.50	1.55	0.12	0.65			
						7.78			
	Net Quantity					177.89	cum		
	Modified quantity					177.89			
	Schedule - B quantity					120.75			
	Quantity up to 125%					150.94		6000.00	905625.00
	Quantity above 125%					26.95		6000.00	161688.89

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15	Vacuum De-Watering With Vacuum Pump and Suction Mat and Compaction With Skin Floater Clubbed With Floating Dise Including Cost of Generator , HOM Of Machinery Screed Viabratory, Power Floater, Blade And Dise With all Lear and Lift complete as per specification								
	For ec road	1	65.50	7.1		465.05			
	Front side of OT	1	18.73	15.40		288.44			
		1	19.55	11.90		232.65			
	Backside of OT	1	24.70	4.15		102.51			
	Beside of OT	1	24.70	4.15		102.51			
		1	5.60	2.85		15.96			
		1	4.2	1.15		4.83			
		1	2.35	1.15		2.70			
		1	2.10	1.15		2.42			
		1	11.60	1.18		13.69			
		1	2.65	2.65		7.02			
		1	5.75	1.30		7.48			
	for shoulder cutting	1	75.50	4.00		302.00			
						1547.24	sqm		
	Deductions								
	circular portions	1	3.14	4.39		13.78			
	rectangular portion	1	8.30	5.50		45.65			
	for ramp	1	3.50	1.55		5.43			
						64.86			
	Net Quantity					1482.38	sqm		
	Modified quantity					1482.38			
	Schedule - B quantity					805.00			
	Quantity up to 125%					1006.25		96.00	96600.00
	Quantity above 125%					476.13		96.00	45708.48
16	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing, curing, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, load and lift, transportation								
	RHS	1	16.50						
		1	14.30						
		1	2.07						
		1	60.00						
		1	16.20						
	LHS	1	60.00						
		1	5.50						
		1	30.00						
		1	7.00						
		1	9.80						
	Front side of OT	1	12.60						
		1	13.50						
	Circular Portion	1	13.80						
	Rectangular portion	1	25.80						
	Total		287.17			635	nos		
	287.17/0.45					638			
	Modified quantity								

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	Schedule - B quantity					512			
	Quantity up to 125%					638		280.00	178640.00
17	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		1	287.17		0.3	86.151	sqm		
	Modified quantity					86.151			
	Schedule - B quantity					92.00			
	Quantity up to 125%					86.151		52.00	4479.85
								Total	4319105.79

Certified that The work spot has been inspected by me and the work is necessary & site condition
Certified that the work is not split
Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17
Certified that Adeqate &
Certified that the above

Asst Engineer
Project Sub Division

Asst.Executive Engineer
Project Sub Division

Executive Engineer
Project Division, Dasarahalli Zone

ನಂ. CE/TC/DA/18-19 ದಿನಾಂಕ : 04/04/2018
ರೂ. 43.19 Lakh Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ ವಲಯ.

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Detailed Estimate

Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate In Rs.	Amount In Rs.
Providing and applying Painting two coats after filling the surface with synthetic enamel paint in shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (I. No.- 24.1, P. No.- 182. SR: 2016-17)								
a) Painting	Sqm	2	115.00		0.40	92.00		
					Total Qty	92.00	63.60	5851.20
							Total Constrution cost	46,28,500.00
							Design Report,Proof Checking & PMC Amount	92,570.00
							Tender Premium 6%	2,77,710.00
							Sub Total	49,98,780.00
							Miscellaneous & Rounding Off	1,220.00
							Grand Total	50,00,000.00

Certificate:-

1. The work spot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Consultants
For Sri Sai Consultants

Assistant Engineer
[redacted]
BBMP - Bangalore

Assistant Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

42/17-18 20/12/2017
50,00,000/- fifty Lakh only

ನಂ. CE/TS/391/17-18 ದಿನಾಂಕ : 21/12/2017
ರೂ. 50.00 Lakh only/-
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
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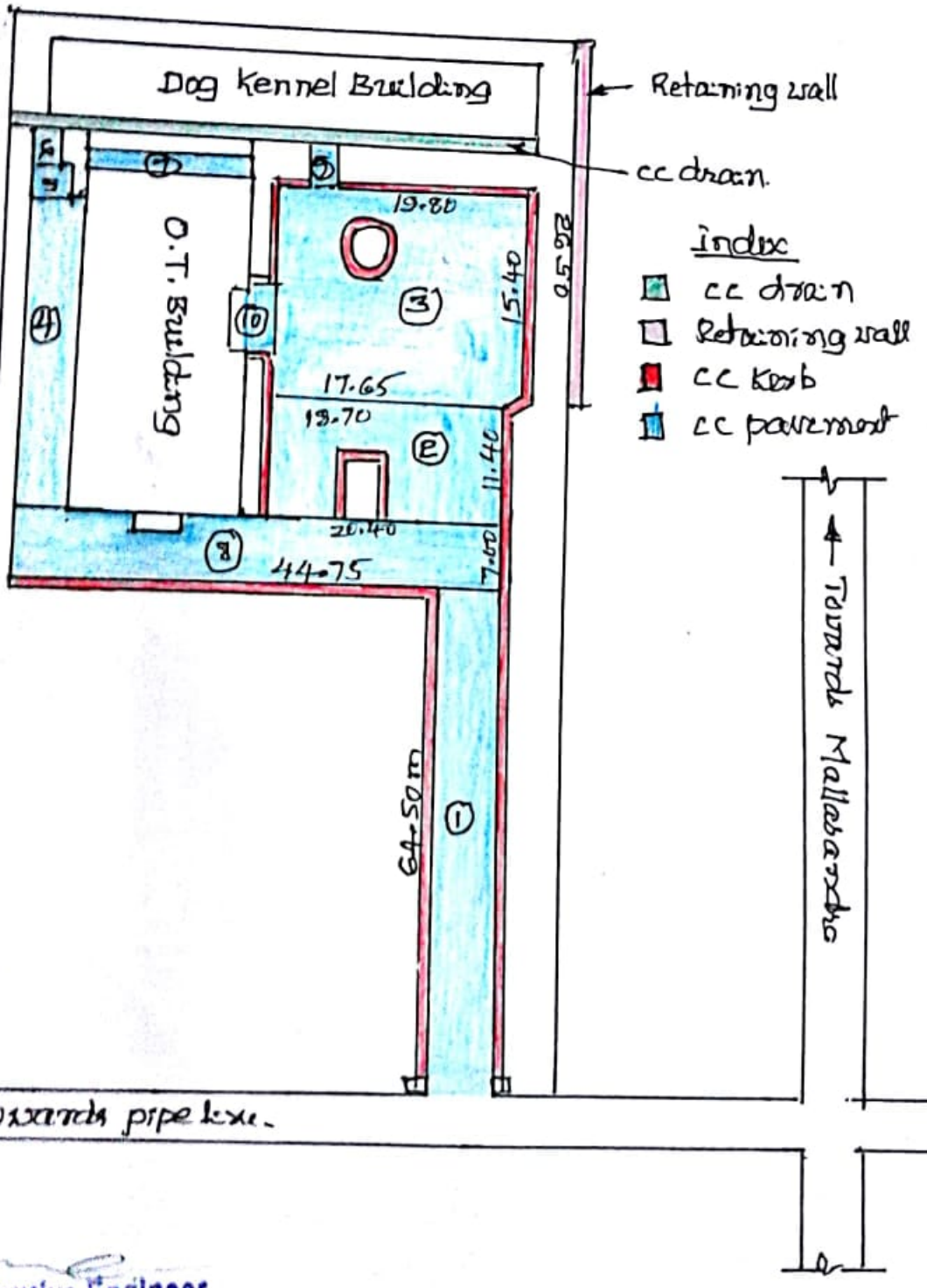
Name of work: Modified estimate for civil works and other development at Dog kennel in Malleswaram ward no:-13 Sheshadri Sub division



Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone.
Bruhat Bengaluru Mahanagara Palike

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